

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
18 December 2003 (18.12.2003)

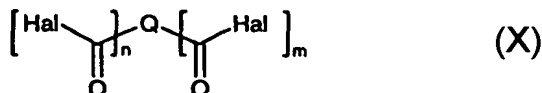
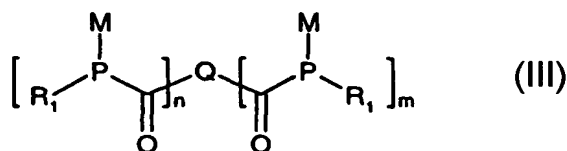
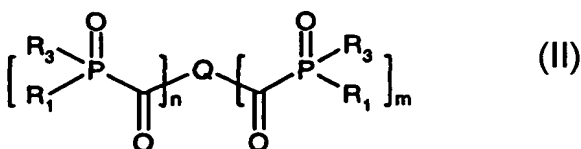
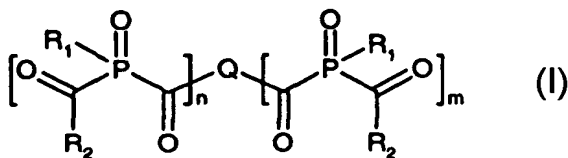
PCT

(10) International Publication Number  
WO 03/104245 A1

- (51) International Patent Classification<sup>7</sup>: C07F 9/53, 9/6568, 9/28, C08F 2/50, G03F 7/029
- (21) International Application Number: PCT/EP03/05801
- (22) International Filing Date: 3 June 2003 (03.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
02405473 11 June 2002 (11.06.2002) EP
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

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(54) Title: MULTIMER FORMS OF MONO- AND BIS-ACYLPHOSPHINE OXIDES



(57) Abstract: The invention relates to dimer and multimer forms of BAPO compounds of the formula (I) dimer and multimer forms of MAPO compounds of the formula (II) wherein R<sub>1</sub>, R<sub>2</sub>, and R<sub>3</sub> independently of one another are unsubstituted or substituted C<sub>1</sub>-C<sub>12</sub>alkyl, benzyl, C<sub>1</sub>-C<sub>12</sub>alkoxy, C<sub>3</sub>-C<sub>6</sub>cycloalkyl or C<sub>5</sub>-C<sub>14</sub>aryl; Q is a di-tri or tetravalent arylene residue; n is 1-4, m is 0-2, n+m is 2, 3 or 4, with the proviso, that R<sub>1</sub> and R<sub>3</sub> are different from each other. The invention further relates to a process for the preparation of dimer or multimer forms of BAPO compounds of the formula (I) and of dimer or multimer forms of MAPO compounds of the formula (II), characterized in the (n + m) equivalents of a dimetalated-phosphine R<sub>1</sub>P(M)<sub>2</sub> is reacted with one equivalent of a di- or polycarboxylic acid halogenide to form an intermediate of the formula III the intermediate is then reacted either with (n + m) equivalents of a further carboxylic acid halogenide (R<sub>2</sub>-CO-Hal) or with a halogenide R<sub>3</sub>-Hal, the reaction products are then oxidized to form phosphine oxides of the formula I or II.